

PCT09

*RM*  
3/19/2001

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/786,260

DATE: 03/19/2001  
TIME: 19:08:34

Input Set : A:\2543seq.txt  
Output Set: N:\CRF3\03192001\I786260.raw

# ENTERED

```

3 <110> APPLICANT: ITOH, Yasuaki
4   OGI, Kazuhiro
5   TANAKA, Hideyuki
6   KITADA, Chieko
W--> 7 <120> TITLE OF INVENTION: Novel Protein And Process For Producing Same
W--> 8 <130> FILE REFERENCE: 2543USOP
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/786,260
C--> 9 <141> CURRENT FILING DATE: 2001-03-01
9 <150> PRIOR APPLICATION NUMBER: PCT/JP99/04765
10 <151> PRIOR FILING DATE: 1999-09-02
11 <150> PRIOR APPLICATION NUMBER: JP 10-250108
12 <151> PRIOR FILING DATE: 1998-09-03
W--> 13 <160> NUMBER OF SEQ ID: 19
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 119
17 <212> TYPE: PRT
18 <213> ORGANISM: Human
W--> 19 <400> SEQUENCE: 1
20 Met Lys Val Leu Ile Ser Ser Leu Leu Leu Leu Leu Pro Leu Met Leu
21   1           5           10           15
22 Met Ser Met Val Ser Ser Ser Leu Asn Pro Gly Val Ala Arg Gly His
23   20           25           30
24 Arg Asp Arg Gly Gln Ala Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln
25   35           40           45
26 Glu Cys Glu Cys Lys Asp Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe
27   50           55           60
28 Met Thr Val Ser Gly Leu Pro Lys Lys Gln Cys Pro Cys Asp His Phe
29   65           70           75           80
30 Lys Gly Asn Val Lys Lys Thr Arg His Gln Arg His His Arg Lys Pro
31   85           90           95
32 Asn Lys His Ser Arg Ala Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu
33   100          105          110
34 Arg Ser Phe Ala Leu Pro Leu
35   115          119
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 119
39 <212> TYPE: PRT
40 <213> ORGANISM: Rat
W--> 41 <400> SEQUENCE: 2
42 Met Lys Leu Leu Ala Ser Pro Phe Leu Leu Leu Leu Thr Gly Met Phe
43   1           5           10           15
44 Thr Ala Thr Val Ser Ser Ser Pro Asn Gln Glu Val Ala Arg His His
45   20           25           30
46 Gly Asp Gln His Gln Ala Pro Arg Arg Trp Leu Trp Glu Gly Gly Gln
47   35           40           45
48 Glu Cys Asp Cys Lys Asp Trp Ser Leu Arg Val Ser Lys Arg Lys Thr
49   50           55           60

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50 Thr Ala Val Leu Glu Pro Pro Arg Lys Gln Cys Pro Cys Asp His Val
51 65 70 75 80
52 Lys Gly Ser Glu Lys Lys Asn Arg Arg Gln Lys His His Arg Lys Ser
53 85 90 95
54 Gln Arg Pro Ser Arg Thr Cys Gln Gln Phe Leu Lys Arg Cys Gln Leu
55 100 105 110
56 Ala Ser Phe Ala Leu Pro Leu
57 115 119

```

59 &lt;210&gt; SEQ ID NO: 3

60 &lt;211&gt; LENGTH: 119

61 &lt;212&gt; TYPE: PRT

62 &lt;213&gt; ORGANISM: Murine

W--&gt; 63 &lt;400&gt; SEQUENCE: 3

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64 Met Lys Leu Leu Ala Ser Pro Phe Leu Leu Leu Pro Val Met Leu
65 1 5 10 15
66 Met Ser Met Val Phe Ser Ser Pro Asn Pro Gly Val Ala Arg Ser His
67 20 25 30
68 Gly Asp Gln His Leu Ala Pro Arg Arg Trp Leu Leu Glu Gly Gly Gln
69 35 40 45
70 Glu Cys Glu Cys Lys Asp Trp Phe Leu Gln Ala Pro Lys Arg Lys Ala
71 50 55 60
72 Thr Ala Val Leu Gly Pro Pro Arg Lys Gln Cys Pro Cys Asp His Val
73 65 70 75 80
74 Lys Gly Arg Glu Lys Lys Asn Arg His Gln Lys His His Arg Lys Ser
75 85 90 95
76 Gln Arg Pro Ser Arg Ala Cys Gln Gln Phe Leu Lys Arg Cys His Leu
77 100 105 110
78 Ala Ser Phe Ala Leu Pro Leu
79 115 119

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81 &lt;210&gt; SEQ ID NO: 4

82 &lt;211&gt; LENGTH: 357

83 &lt;212&gt; TYPE: DNA

84 &lt;213&gt; ORGANISM: Human

W--&gt; 85 &lt;400&gt; SEQUENCE: 4

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C--> 86 atgaaagttc taatctcttc cctcctcctg ttgctgccac taatgctgat gtccatggtc 60
87 tctagcagcc tgaatccagg ggtcgccaga ggccacaggg accgaggcca ggcttctagg 120
88 agatggctcc aggaaggcgg ccaagaatgt gactgcaaag attggttcct gagagccccg 180
89 agaagaaaat tcatgacagt gtctgggctg ccaaagaagc agtggccctg tgatcatttc 240
90 aagggcaatg tgaagaaaac aagacaccaa aggcaccaca gaaagccaaa caagcattcc 300
91 agagcctgcc agcaatttct caaacaatgt cagctaagaa gctttgctct gcctttg 357

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93 &lt;210&gt; SEQ ID NO: 5

94 &lt;211&gt; LENGTH: 357

95 &lt;212&gt; TYPE: DNA

96 &lt;213&gt; ORGANISM: Rat

W--&gt; 97 &lt;400&gt; SEQUENCE: 5

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C--> 98 atgaagcttc tagcctctcc ctctcttctg ttgctgacag ggatgttcac ggccacggtc 60
99 tccagcagcc cgaatcaaga ggtcgccaga cccatgggg atcaacacca ggctcctagg 120
100 aggtggctct gggaaggtgg ccaagagtgt gactgcaaag attggtccct gcgagtctca 180
101 aagagaaaaa ccacagcagt gctggaagcca ccaaggaagc agtgtccctg tgatcatgtc 240

```

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```

102 aagggcagtg agaaaaagaa cagacgcaa aagcaccaca ggaagtcaca aagggccctcc 300
103 agaacctgcc agcaatttct caagcgatgt caactagcaa gcttcgccct gccctta 357
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 357
107 <212> TYPE: DNA
108 <213> ORGANISM: Murine
W--> 109 <400> SEQUENCE: 6
C--> 110 atgaagcttc tagcctctcc ctctcttctg ttgcttccag tgatgctcat gtccatggtc 60
111 ttcagcagcc cgaacctcagg ggtcgccaga agccacgggg accaacacct ggctcctagg 120
112 aggtggctct tggaagggtg ccaagaatgt gaatgcaaag attggttctt gcaagcccca 180
113 aagagaaaag ccacagcagt gctggggcca ccaaggaagca gtgtccctg tgatcacgtc 240
114 aagggcaggg agaaaaaaaa cagacaccaa aagcaccaca ggaagtcgca aagaccctcc 300
115 agagcctgcc agcaatttct caaacgatgt cacctggcaa gctttgcgt gccctta 357
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 97
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial
W--> 121 <220> FEATURE:
122 <223> OTHER INFORMATION: human fragment (23-119)
W--> 123 <400> SEQUENCE: 7
124 Ser Leu Asn Pro Gly Val Ala Arg Gly His Arg Asp Arg Gly Gln Ala
125 1 5 10 15
126 Ser Arg Arg Trp Leu Gln Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp
127 20 25 30
128 Trp Phe Leu Arg Ala Pro Arg Arg Lys Phe Met Thr Val Ser Gly Leu
129 35 40 45
130 Pro Lys Lys Gln Cys Pro Cys Asp His Phe Lys Gly Asn Val Lys Lys
131 50 55 60
132 Thr Arg His Gln Arg His His Arg Lys Pro Asn Lys His Ser Arg Ala
133 65 70 75 80
134 Cys Gln Gln Phe Leu Lys Gln Cys Gln Leu Arg Ser Phe Ala Leu Pro
135 85 90 95
136 Leu
137 97
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 97
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial
W--> 143 <220> FEATURE:
144 <223> OTHER INFORMATION: rat fragment (23-119)
W--> 145 <400> SEQUENCE: 8
146 Ser Pro Asn Gln Glu Val Ala Arg His His Gly Asp Gln His Gln Ala
147 1 5 10 15
148 Pro Arg Arg Trp Leu Trp Glu Gly Gly Gln Glu Cys Asp Cys Lys Asp
149 20 25 30
150 Trp Ser Leu Arg Val Ser Lys Arg Lys Thr Thr Ala Val Leu Glu Pro
151 35 40 45
152 Pro Arg Lys Gln Cys Pro Cys Asp His Val Lys Gly Ser Glu Lys Lys
153 50 55 60

```

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Input Set : A:\2543seq.txt

Output Set: N:\CRF3\03192001\I786260.raw

154 Asn Arg Arg Gln Lys His His Arg Lys Ser Gln Arg Pro Ser Arg Thr  
 155 65 70 75 80  
 156 Cys Gln Gln Phe Leu Lys Arg Cys Gln Leu Ala Ser Phe Ala Leu Pro  
 157 85 90 95  
 158 Leu  
 159 97

161 <210> SEQ ID NO: 9

162 <211> LENGTH: 97

163 <212> TYPE: PRT

164 <213> ORGANISM: Artificial

W--> 165 <220> FEATURE:

166 <223> OTHER INFORMATION: murine fragment (23-119)

W--> 167 <400> SEQUENCE: 9

168 Ser Pro Asn Pro Gly Val Ala Arg Ser His Gly Asp Gln His Leu Ala  
 169 1 5 10 15  
 170 Pro Arg Arg Trp Leu Leu Glu Gly Gly Gln Glu Cys Glu Cys Lys Asp  
 171 20 25 30  
 172 Trp Phe Leu Gln Ala Pro Lys Arg Lys Ala Thr Ala Val Leu Gly Pro  
 173 35 40 45  
 174 Pro Arg Lys Gln Cys Pro Cys Asp His Val Lys Gly Arg Glu Lys Lys  
 175 50 55 60  
 177 Asn Arg His Gln Lys His His Arg Lys Ser Gln Arg Pro Ser Arg Ala  
 178 65 70 75 80  
 179 Cys Gln Gln Phe Leu Lys Arg Cys His Leu Ala Ser Phe Ala Leu Pro  
 180 85 90 95  
 181 Leu  
 182 97

184 <210> SEQ ID NO: 10

185 <211> LENGTH: 291

186 <212> TYPE: DNA

187 <213> ORGANISM: Human

W--> 188 <400> SEQUENCE: 10

C--> 189 agcctgaatc caggggtcgc cagaggccac agggaccgag gccaggettc taggagatgg 60  
 190 ctccaggaag ggggccaaga atgtgagtgc aaagattggt tcctgagagc cccgagaaga 120  
 191 aaattcatga cagtgtcttg gctgccaaag aagcagtgc cctgtgatca tttcaagggc 180  
 192 aatgtgaaga aaacaagaca ccaaaggcac cacagaaagc caaacaagca ttccagagcc 240  
 193 tgccagcaat ttctcaaaca atgtcagcta agaagctttg ctctgccttt g 291

195 <210> SEQ ID NO: 11

196 <211> LENGTH: 291

197 <212> TYPE: DNA

198 <213> ORGANISM: Rat

W--> 199 <400> SEQUENCE: 11

C--> 200 agcccgaatc aagaggtcgc cagacaccat ggggatcaac accaggetcc taggaggtgg 60  
 201 ctctgggaag gtggccaaga gtgtgactgc aaagattggt cctgagagc ctcaaagaga 120  
 202 aaaaccacag cagtgtctga gccaccaagg aagcagtgc cctgtgatca tgtcaagggc 180  
 203 agtgagaaaa agaacagacg ccaaaagcac cacaggagt cacaaggcc ctccagaacc 240  
 204 tgccagcaat ttctcaagcg atgtcaacta gcaagcttcg cctgcccctt a 291

206 <210> SEQ ID NO: 12

207 <211> LENGTH: 291

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208 <212> TYPE: DNA
209 <213> ORGANISM: Murine
W--> 210 <400> SEQUENCE: 12
C--> 211 agcccggaacc caggggtcgc cagaagccac ggggaccaac acctggctcc taggaggtgg 60
      212 ctcttggaag gtggccaaga atgtgaatgc aaagattggt tcctgcaagc cccaagaga 120
      213 aaagccacag cagtgtctggg gccaccaagg aagcagtgtc cctgtgatca cgtcaagggc 180
      214 agggagaaaa aaaacagaca ccaaaagcac cacaggagt cgcaaagacc ctccagagcc 240
      215 tgccagcaat ttctcaaacg atgtcacctg gcaagctttg cgctgccctt a 291
      217 <210> SEQ ID NO: 13
      218 <211> LENGTH: 22
      219 <212> TYPE: DNA
      220 <213> ORGANISM: Artificial Sequence
W--> 221 <220> FEATURE:
      222 <223> OTHER INFORMATION: primer
W--> 223 <400> SEQUENCE: 13
C--> 224 gcctttaaga accaacagac ag 22
      226 <210> SEQ ID NO: 14
      227 <211> LENGTH: 40
      228 <212> TYPE: DNA
      229 <213> ORGANISM: Artificial Sequence
W--> 230 <220> FEATURE:
      231 <223> OTHER INFORMATION: primer
W--> 232 <400> SEQUENCE: 14
C--> 233 gacgaattcc caccatgaaa gttctaattct ctteccctct 40
      235 <210> SEQ ID NO: 15
      236 <211> LENGTH: 40
      237 <212> TYPE: DNA
      238 <213> ORGANISM: Artificial Sequence
W--> 239 <220> FEATURE:
      240 <223> OTHER INFORMATION: primer
W--> 241 <400> SEQUENCE: 15
C--> 242 gactcgagcg gccgctacaa aggcagagca aagcttctta 40
      244 <210> SEQ ID NO: 16
      245 <211> LENGTH: 47
      246 <212> TYPE: DNA
      247 <213> ORGANISM: Artificial Sequence
W--> 248 <220> FEATURE:
      249 <223> OTHER INFORMATION: primer
W--> 250 <400> SEQUENCE: 16
C--> 251 tgcaccgtcg accaccatga aagtttctaat ctcttcctctc ctctgt 47
      253 <210> SEQ ID NO: 17
      254 <211> LENGTH: 51
      255 <212> TYPE: DNA
      256 <213> ORGANISM: Artificial Sequence
W--> 257 <220> FEATURE:
      258 <223> OTHER INFORMATION: primer
W--> 259 <400> SEQUENCE: 17
C--> 260 cgctcagtcg acctacaaag gcagagcaaa gcttcttagc tgacattgtt t 51
      262 <210> SEQ ID NO: 18

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VERIFICATION SUMMARY                      DATE: 03/19/2001  
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Input Set : A:\2543seq.txt  
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L:7 M:283 W: Missing Blank Line separator, <120> field identifier  
L:8 M:283 W: Missing Blank Line separator, <130> field identifier  
L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:13 M:283 W: Missing Blank Line separator, <160> field identifier  
L:19 M:283 W: Missing Blank Line separator, <400> field identifier  
L:41 M:283 W: Missing Blank Line separator, <400> field identifier  
L:63 M:283 W: Missing Blank Line separator, <400> field identifier  
L:85 M:283 W: Missing Blank Line separator, <400> field identifier  
L:86 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=4  
L:97 M:283 W: Missing Blank Line separator, <400> field identifier  
L:98 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=5  
L:109 M:283 W: Missing Blank Line separator, <400> field identifier  
L:110 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=6  
L:121 M:283 W: Missing Blank Line separator, <220> field identifier  
L:123 M:283 W: Missing Blank Line separator, <400> field identifier  
L:143 M:283 W: Missing Blank Line separator, <220> field identifier  
L:145 M:283 W: Missing Blank Line separator, <400> field identifier  
L:165 M:283 W: Missing Blank Line separator, <220> field identifier  
L:167 M:283 W: Missing Blank Line separator, <400> field identifier  
L:188 M:283 W: Missing Blank Line separator, <400> field identifier  
L:189 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=10  
L:199 M:283 W: Missing Blank Line separator, <400> field identifier  
L:200 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=11  
L:210 M:283 W: Missing Blank Line separator, <400> field identifier  
L:211 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=12  
L:221 M:283 W: Missing Blank Line separator, <220> field identifier  
L:223 M:283 W: Missing Blank Line separator, <400> field identifier  
L:224 M:112 C: (48) String data converted to lower case,  
L:230 M:283 W: Missing Blank Line separator, <220> field identifier  
L:232 M:283 W: Missing Blank Line separator, <400> field identifier  
L:233 M:112 C: (48) String data converted to lower case,  
L:239 M:283 W: Missing Blank Line separator, <220> field identifier  
L:241 M:283 W: Missing Blank Line separator, <400> field identifier  
L:242 M:112 C: (48) String data converted to lower case,  
L:248 M:283 W: Missing Blank Line separator, <220> field identifier  
L:250 M:283 W: Missing Blank Line separator, <400> field identifier  
L:251 M:112 C: (48) String data converted to lower case,  
L:257 M:283 W: Missing Blank Line separator, <220> field identifier  
L:259 M:283 W: Missing Blank Line separator, <400> field identifier  
L:260 M:112 C: (48) String data converted to lower case,  
L:266 M:283 W: Missing Blank Line separator, <220> field identifier

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Input Set : A:\2543seq.txt  
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L:268 M:283 W: Missing Blank Line separator, <400> field identifier  
L:269 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=18  
L:276 M:283 W: Missing Blank Line separator, <220> field identifier  
L:278 M:283 W: Missing Blank Line separator, <400> field identifier  
L:279 M:112 C: (48) String data converted to lower case,